SOLUTIONS

· Axisymetric 2-D Model

     Determine Outer Register Door Positioning (Swirl # < .3)

     Determine Inner Register Vane Positioning (Swirl # > .6)

     Maintain Total Burner Swirl # = .3

· Coal Flame Stabilizer

     Swirl # = .8

· Optimize Burner Design

     Conduct Burner Design Evaluation

     Detail Swirler Design

     Compute Aerodynamic Model

     Conduct Finite Element Analysis